

Product datasheet

Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] ab109746

Recombinant RabMAb

★★★★☆ 5 Abreviews 13 References 17 Images

Overview

Product name	Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281]
Description	Rabbit monoclonal [EP4281] to Myelin oligodendrocyte glycoprotein
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Mouse brain, Rat brain and Human brain lysates; Human astrocytoma tissue and Human brain tissue
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide

	Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP4281
Isotype	IgG

Applications

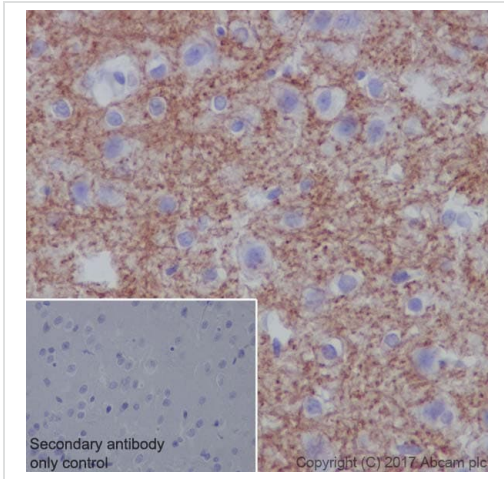
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab109746 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (2)	1/1000 - 1/10000. Predicted molecular weight: 28 kDa.
IHC-P		1/1000 - 1/5000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See IHC antigen retrieval protocols .

Target

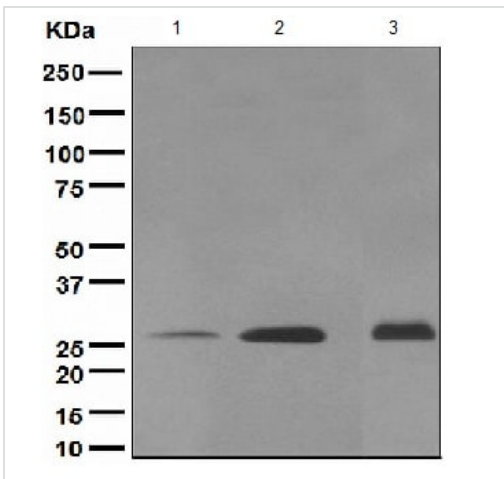
Function	Mediates homophilic cell-cell adhesion (By similarity). Minor component of the myelin sheath. May be involved in completion and/or maintenance of the myelin sheath and in cell-cell communication.
Tissue specificity	Found exclusively in the CNS, where it is localized on the surface of myelin and oligodendrocyte cytoplasmic membranes.
Sequence similarities	Belongs to the immunoglobulin superfamily. BTN/MOG family. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Cellular localization	Cell membrane.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat cerebrum tissue sections labeling Myelin oligodendrocyte glycoprotein with purified ab109746 at 1:1000 dilution (1.12 µg/ml). Heat mediated antigen retrieval was performed using ab93684 (Tris/EDTA buffer, pH 9.0). Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use). PBS instead of the primary antibody was used as the negative control.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746)



All lanes : Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746) at 1/1000 dilution

Lane 1 : Mouse brain lysate

Lane 2 : Rat brain lysate

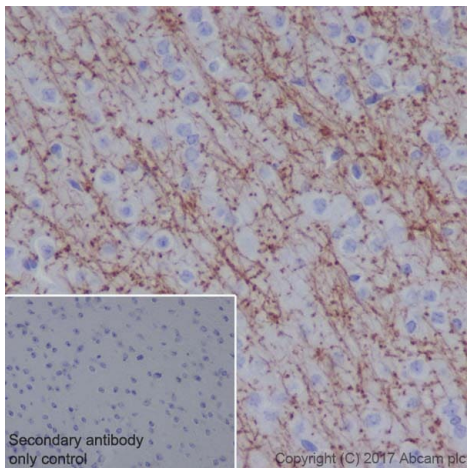
Lane 3 : Human brain lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 28 kDa

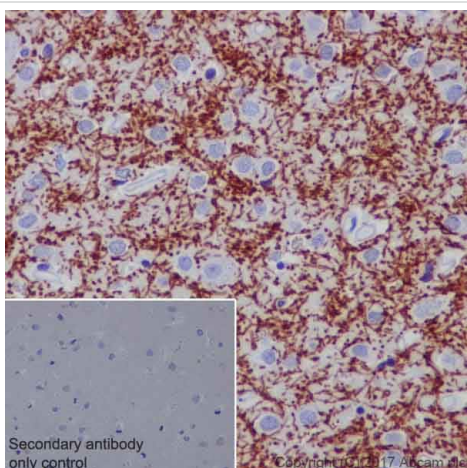
Western blot - Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746)

This image was produced using unpurified antibody.



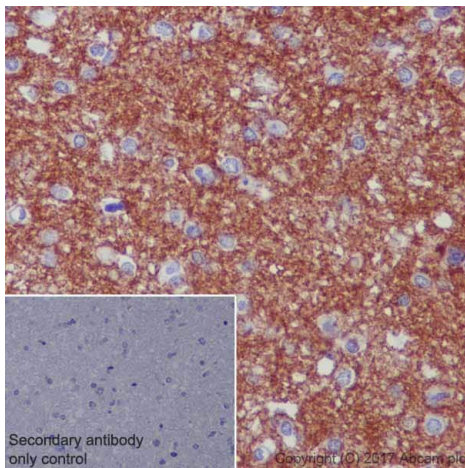
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse cerebrum tissue sections labeling Myelin oligodendrocyte glycoprotein with Purified ab109746 at 1:1000 dilution (1.12 µg/ml). Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746)



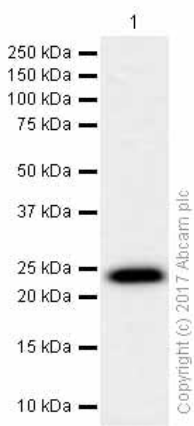
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cerebrum tissue sections labeling Myelin oligodendrocyte glycoprotein with purified ab109746 at 1:1000 dilution (1.12 µg/ml). Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use). PBS instead of the primary antibody was used as the negative control.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human astrocytoma tissue sections labeling Myelin oligodendrocyte glycoprotein with purified ab109746 at 1:1000 dilution (1.12 µg/ml). Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use). PBS instead of the primary antibody was used as the negative control.



Western blot - Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746)

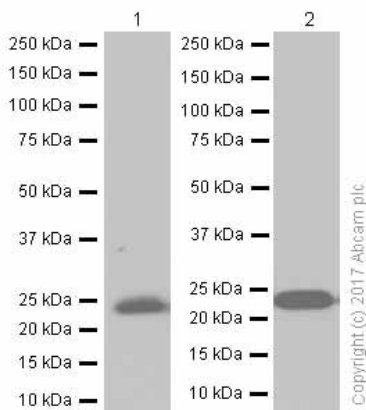
Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746) at 1/2000 dilution (Purified) + Mouse brain lysates at 20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 28 kDa

Observed band size: 28 kDa



Western blot - Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746)

All lanes : Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746) at 1/2000 dilution

Lane 1 : Human brain lysates

Lane 2 : Rat brain lysates

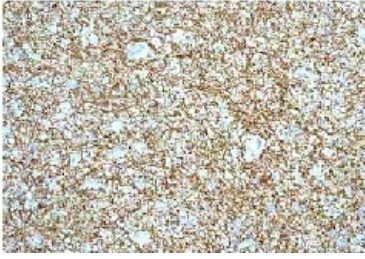
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 28 kDa

Observed band size: 28 kDa



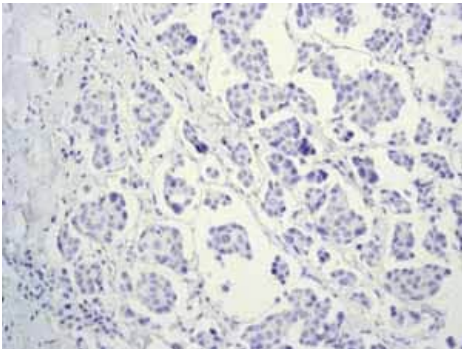
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746)

ab109746, at 1/1000 dilution, staining Myelin oligodendrocyte glycoprotein in paraffin-embedded Human astrocytoma tissue by Immunohistochemistry. This image was produced using unpurified antibody.



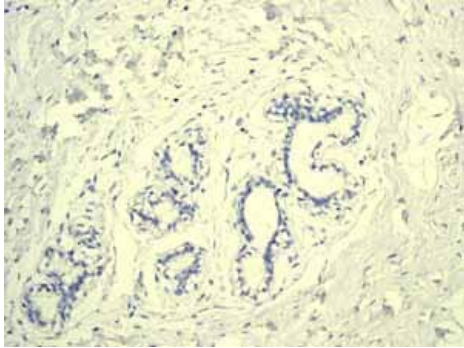
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746)

ab109746, at 1/1000 dilution, staining Myelin oligodendrocyte glycoprotein in paraffin-embedded Human brain tissue by Immunohistochemistry. This image was produced using unpurified antibody.



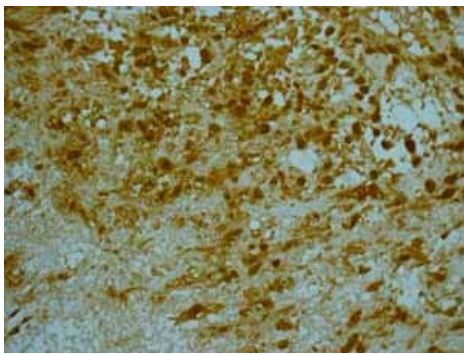
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746)

ab109746 showing negative staining in Breast carcinoma tissue. This image was produced using unpurified antibody.



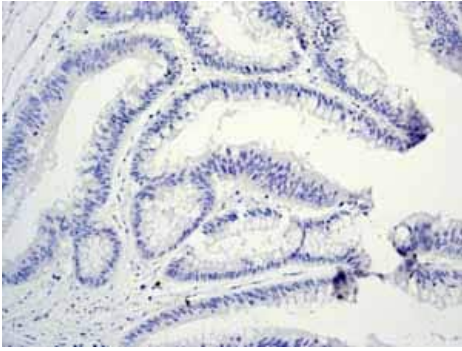
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746)

ab109746 showing negative staining in Normal breast tissue. This image was produced using unpurified antibody.



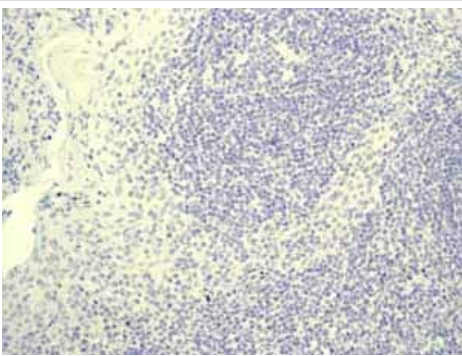
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746)

ab109746 showing positive staining in Glioblastoma tissue. This image was produced using unpurified antibody.



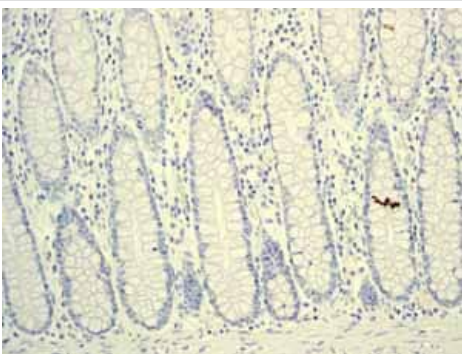
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746)

ab109746 showing negative staining in Colonic adenocarcinoma tissue. This image was produced using unpurified antibody.



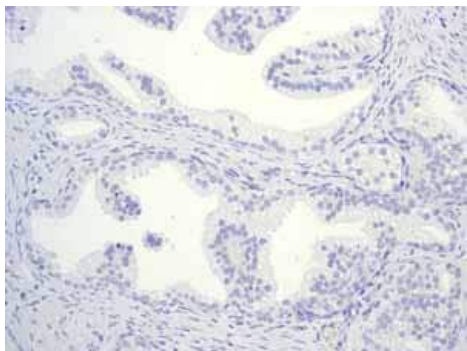
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746)

ab109746 showing negative staining in Normal tonsil tissue. This image was produced using unpurified antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746)

ab109746 showing negative staining in Normal colon tissue. This image was produced using unpurified antibody.



ab109746 showing negative staining in Benign prostatic hyperplasia tissue. This image was produced using unpurified antibody.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Myelin oligodendrocyte glycoprotein antibody [EP4281] (ab109746)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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